

From: Mahendra Shah
To: Christopher Bajwa
Date: 10/21/02 3:28PM
Subject: Comments on Section 3 of the Sandia Darft Report

Chris:

Attached please find my comments on Section 3 of the Sandia report. The comments relate to OOU parts of the report. Thanks.

Mahendra

CC: Bernard White; Daniel Huang; Jack Guttmann; Robert Shewmaker; Ron Parkhill

C/11

Comments on Section 3 of the Sandia Draft Report dated October 3, 2002
by Mahendra J. Shah, 10/21/2002

Section 3:

- a. Change "Vulcan" to "VULCAN" at all locations in the report.
- b. Page 3-2, first paragraph, line 1:
Change "2.5 feet" to "approximately 27 inches".
- c. Define the thermodynamic properties variables C_p , k , ρ , and α , and provide references for the values.
- d. Page 3-4, second paragraph:
Explain the significance of the Courant numbers and its impact on the accuracy of the results.
- e. Page 3-8, section 3.3.2, first paragraph, fourth line:
Explain the configuration of the MPC in the horizontal position of the storage cask. The significance of the statement that "the canister is still centered inside the concrete shield" is not clear.
- f. Page 3-19, first paragraph:
Provide a specific reference to the transportation cask, and revise reference details on page 3-35 for the SAR reference.
- g. Page 3-20, Figure 3.4.3:
Identify the location of the cask for which the temperature data is shown.
- h. Page 3-21, Figure 3.4.4;
Define "r" and the units.
- i. Page 3-21, section 3.5:
Identify the multi-purpose canister, which has been analyzed.